

2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 18

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Remarks	Medium
18	6972	5	Y	BAGLEY CREEK	YM49RG	1.838	30N	05W	16	Fecal Coliform	Water
				Clallam County Water Quality Division data (submitted by Joel Freudenthal on 10/7/91) shows that 2 of 2 samples (100%) collected at Hwy 101 in 1991 exceeded the percentile criterion.							
18	42965	5	N	BELL CREEK	ZX80OY	0	30N	03W	22	Dissolved oxygen	Water
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Bell 0.1 shows 7 samples beyond the criterion collected on the following days: 1/17/2000, 10/1/2000, 7/28/2000, 8/12/2001, 9/30/2001, 8/15/2002, 10/17/2003.							
18	42966	5	N	BELL CREEK	ZX80OY	0.4	30N	03W	21	Dissolved oxygen	Water
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Bell 0.8 shows 5 samples beyond the criterion collected on the following days: 10/3/2001, 8/15/2001, 1/20/2002, 1/20/2003, 10/17/2003.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Remarks	Medium
				Basis							
18	7685	5	Y	BELL CREEK	ZX800Y	0	30N	03W	22	Fecal Coliform	Water
Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Bell 0.1 shows in 2001 and 2003 at least one sample exceeded the criterion.											
Streamkeepers of Clallam County unpublished data show a geometric mean of 12 cfu/100mL from 4 samples collected in 2003 at station Bell 0.1 (Bell @ Schmuck Rd).											
Streamkeepers of Clallam County unpublished data show a geometric mean of 13 cfu/100mL from 4 samples collected in 2002 at station Bell 0.1 (Bell @ Schmuck Rd).											
Streamkeepers of Clallam County unpublished data show a geometric mean of 1 cfu/100mL from 1 samples collected in 2002 at station BC01 (Bell Cr. @Schmuck Rd.).											
Streamkeepers of Clallam County unpublished data show a geometric mean of 17 cfu/100mL from 6 samples collected in 2001 at station Bell 0.1 (Bell @ Schmuck Rd).											
Streamkeepers of Clallam County unpublished data show a geometric mean of 42 cfu/100mL from 5 samples collected in 2000 at station Bell 0.1 (Bell @ Schmuck Rd).											
Streamkeepers of Clallam County unpublished data show a geometric mean of 38 cfu/100mL from 3 samples collected in 1999 at station Bell 0.1 (Bell @ Schmuck Rd).											
Streamkeepers of Clallam County unpublished data show a geometric mean of 2070 cfu/100mL from 6 samples collected in 1992 at station Bell 0.1 (Bell @ Schmuck Rd).											
Streamkeepers of Clallam County unpublished data show a geometric mean of 190 cfu/100mL from 1 samples collected in 1990 at station Bell 0.1 (Bell @ Schmuck Rd).											
Streamkeepers of Clallam County unpublished data show a geometric mean of 267 cfu/100mL from 5 samples collected in 1989 at station Bell 0.1 (Bell @ Schmuck Rd).											
Streamkeepers of Clallam County unpublished data show a geometric mean of 863 cfu/100mL from 12 samples collected in 1988 at station Bell 0.1 (Bell @ Schmuck Rd).											
Streamkeepers of Clallam County unpublished data show a geometric mean of 724 cfu/100mL from 4 samples collected in 1987 at station Bell 0.1 (Bell @ Schmuck Rd).											
18	42819	5	N	CASSALERY CREEK	JE42HJ	0.679	30N	03W	05	Dissolved oxygen	Water
Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Cassalery 0.5 shows 2 samples beyond the criterion collected on the following days: 8/5/2000, 8/11/2001.											
18	6973	5	Y	CASSALERY CREEK	JE42HJ	0	31N	03W	32	Fecal Coliform	Water
Clallam County Water Quality Division data (submitted by Joel Freudenthal on 10/7/91) shows that 3 of 4 samples (75%) collected at the mouth exceeded the percentile criterion in 1991.											

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium	Remarks
				Basis								
18	21444	5	N	CASSALERY CREEK	JE42HJ	0.679	30N	03W	05	Fecal Coliform	Water	<p>Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Cassalery 0.6 shows in 2002 and 2003 at least one sample exceeded the criterion.</p> <p>Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Cassalery 0.5 shows in 2000, 3 of 3 samples (100.0%) exceeded the percentile criterion; in 2001, 3 of 3 samples (100.0%) exceeded the percentile criterion.</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 32 cfu/100mL from 2 samples collected in 2003 at station Cassalery 0.6 (Cassalery @Jamestown Rd.)</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 899 cfu/100mL from 2 samples collected in 2002 at station Cassalery 0.6 (Cassalery @Jamestown Rd.).</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 74 cfu/100mL from 3 samples collected in 2002 at station Cassalery 0.5 (Cassalery d/s of Jamestown Rd).</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 20 cfu/100mL from 1 samples collected in 2001 at station Cassalery 0.6 (Cassalery @Jamestown Rd.).</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 552 cfu/100mL from 5 samples collected in 2001 at station Cassalery 0.5 (Cassalery d/s of Jamestown Rd).</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 274 cfu/100mL from 5 samples collected in 2000 at station Cassalery 0.5 (Cassalery d/s of Jamestown Rd).</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 292 cfu/100mL from 1 samples collected in 1999 at station Cassalery 0.5 (Cassalery d/s of Jamestown Rd).</p>
18	6878	5	Y	DRY CREEK	XN56VX	2.767	30N	07W	12	Temperature	Water	Elwha-Klallam Indian Tribal data (submitted by Michael McHenry on 9/10/93) show a 7-day mean of maximum daily temperatures of 27.7 deg C. at RM 2.5 between 7/92 and 9/92.
18	40383	5	N	DUNGENESS BAY	390KRD	48123B1F5	48.155	123.155		Fecal Coliform	Water	<p>Department of Health unpublished data collected from station DUNGENESS BAY-108 show a geometric mean of 6 cfu/100mL and 7.14285714285714% of samples exceed the percentile criterion with the last sample collected on 19-Dec-2001.</p> <p>Department of Health unpublished data collected from station DUNGENESS BAY-110 show a geometric mean of 6 cfu/100mL and 10.7142857142857% of samples exceed the percentile criterion with the last sample collected on 19-Dec-2001.</p>
18	6579	5	N	ELWHA RIVER	PB56KA	11.657	30N	07W	28	Temperature	Water	Dept. of Ecology unpublished data from core ambient monitoring station 18B070 (Elwha R. near Port Angeles) shows a 7-day mean of daily maximum values of 16.6 for mid-week 11 August 2001.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 18B070 (ELWHA RIVER NEAR PORT ANGELES) shows 0 excursions beyond the criterion out of 54 samples collected between 1993 - 2001

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				Basis								
18	7023	5	N	ELWHA RIVER	PB56KA	5.071	30N	07W	10	Total PCBs		Tissue
				Serdar, 1999. excursions beyond the National Toxics Rule criterion in rainbow trout collected in 1999.								
18	9924	5	N	MCALLISTER CREEK	JQ29HX	0.619	31N	03W	37	Fecal Coliform		Water
				Sargeant (2002) station MC0.8 (MC0.8) shows the geometric mean of 13 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 3 samples collected during 1999.; Sargeant (2002) station MC0.8 (MC0.8) shows the geometric mean of 66 does not exceed the criterion and that 19 % of the samples exceeds the percentile criterion from 16 samples collected during 2000.;								
				Sargeant (2002) station MC1.7T (MC1.7T) shows the geometric mean of 121 exceeds the criterion and that 31 % of the samples exceeds the percentile criterion from 13 samples collected during 2000.								
18	9925	5	N	MCALLISTER CREEK	JQ29HX	2.754	31N	03W	31	Fecal Coliform		Water
				Sargeant (2002) station MC1.9 (MC1.9) shows the geometric mean of 32 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 4 samples collected during 1999.; Sargeant (2002) station MC1.9 (MC1.9) shows the geometric mean of 119 exceeds the criterion and that 31 % of the samples exceeds the percentile criterion from 16 samples collected during 2000.;								
				Sargeant (2002) station MC2.0 (MC2.0) shows the geometric mean of 174 exceeds the criterion and that 33 % of the samples exceeds the percentile criterion from 9 samples collected during 2000.; ;								

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Remarks	Medium
				Basis				
18	21467	5	N	PEABODY CREEK	JY97IB 0 30N 06W 01	Fecal Coliform		Water
Streamkeepers of Clallam County unpublished data show a geometric mean of 10 cfu/100mL from 1 samples collected in 2003 at station Peabody 0.2 (Peabody @ 2nd St).								
Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Peabody 0.3 shows in 2003, 2 of 4 samples (50.0%) exceeded the percentile criterion.								
Streamkeepers of Clallam County unpublished data show a geometric mean of 212 cfu/100mL from 2 samples collected in 2003 at station Peabody 0.3 (Peabody @trailer park laundry).								
Streamkeepers of Clallam County unpublished data show a geometric mean of 14 cfu/100mL from 2 samples collected in 2002 at station Peabody 0.0 (Peabody @ mouth).								
Streamkeepers of Clallam County unpublished data show a geometric mean of 48 cfu/100mL from 4 samples collected in 2002 at station Peabody 0.2 (Peabody @ 2nd St).								
Streamkeepers of Clallam County unpublished data show a geometric mean of 31 cfu/100mL from 2 samples collected in 2002 at station Peabody 0.3 (Peabody @trailer park laundry).								
Streamkeepers of Clallam County unpublished data show a geometric mean of 631 cfu/100mL from 4 samples collected in 2001 at station Peabody 0.0 (Peabody @ mouth).								
Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Peabody 0.2 shows in 2001, 3 of 6 samples (50.0%) exceeded the percentile criterion; and a geometric mean of 278.78 from 6 samples exceeded the criterion.								
Streamkeepers of Clallam County unpublished data show a geometric mean of 291 cfu/100mL from 7 samples collected in 2001 at station Peabody 0.2 (Peabody @ 2nd St).								
Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Peabody 0.2a2 shows in 2001, 2 of 2 samples (100.0%) exceeded the percentile criterion.								
Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Peabody 0.2a4 shows in 2001, 2 of 2 samples (100.0%) exceeded the percentile criterion.								
Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Peabody 0.2b shows in 2001, 2 of 2 samples (100.0%) exceeded the percentile criterion.								
Streamkeepers of Clallam County unpublished data show a geometric mean of 26 cfu/100mL from 6 samples collected in 2001 at station Peabody 0.3 (Peabody @trailer park laundry).								
Streamkeepers of Clallam County unpublished data show a geometric mean of 20 cfu/100mL from 1 samples collected in 2001 at station Peabody 0.4 (Peabody @ Peabody St culvert).								
Streamkeepers of Clallam County unpublished data show a geometric mean of 32 cfu/100mL from 1 samples collected in 2001 at station Peabody 0.5 (Peabody u/s of Peabody St).								
Streamkeepers of Clallam County unpublished data show a geometric mean of 86 cfu/100mL from 1 samples collected in 2001 at station Peabody 0.6 (Peabody d/s of 5 St. Culvert).								
Streamkeepers of Clallam County unpublished data show a geometric mean of 22 cfu/100mL from 2 samples collected in 2001 at station Peabody 0.9 (Peabody u/s of 8 St.).								

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				Basis		Remarks	
				Streamkeepers of Clallam County unpublished data show a geometric mean of 21 cfu/100mL from 2 samples collected in 2001 at station Peabody 1.0 (Peabody @ 9th St).			
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Peabody 0.0 shows in 2000, 2 of 3 samples (66.7%) exceeded the percentile criterion; in 2001, 2 of 3 samples (66.7%) exceeded the percentile criterion.			
				Streamkeepers of Clallam County unpublished data show a geometric mean of 69 cfu/100mL from 3 samples collected in 2000 at station Peabody 0.0 (Peabody @ mouth).			
				Streamkeepers of Clallam County unpublished data show a geometric mean of 102 cfu/100mL from 2 samples collected in 2000 at station Peabody 0.2 (Peabody @ 2nd St).			
				Streamkeepers of Clallam County unpublished data show a geometric mean of 22 cfu/100mL from 2 samples collected in 1999 at station Peabody 0.0 (Peabody @ mouth).			
18	10312	5	Y	PORT ANGELES HARBOR	390KRD 48123B4D6 48.135 123.465	Dissolved oxygen	Water
retained upon				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station PAH003 (Port Angeles Harbor - Ediz Hook Head) shows excursions beyond the criterion in 2001 and 2002.		further research of available literature, see BPJ Albertson 2005, and SAIC 1999. 03/07/05 -kk	Considered for removal from Category 5, but
there						Albertson 2005, analyses at the 20 meter depth suggest	
						could be additional anthropogenic effect on the DO concentrations of upwelled water entering the bay.	
organic						SAIC 1999, accumulation of wood waste contributes to apparent high sediment oxygen demand, degraded benthic habitat (OSI less than zero) was observed in the near shore areas of the western harbor, bacterial mats indicating	
in						loading and low dissolved oxygen conditions were observed	
						the western harbor.	
						Floyd Snider McCarthy, Inc. and Evans-Hamilton, 2002, suggests that low dissolved oxygen concentrations are directly tied to conditions in the Strait of Juan de Fuca. The data indicate that tidal flushing rates in Port Angeles Harbor supply or remove much more oxygen than the oxygen demand that may be caused by human factors.	
18	42979	5	N	SIEBERT CREEK, W.F.	SF89WR 3.254 29N 05W 22	Dissolved oxygen	Water
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Siebert WF 2.3 shows 3 samples beyond the criterion collected on the following days: 7/26/2001, 9/24/2001, 8/27/2002.			

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information				Parameter	Remarks	Medium
18	40377	5	N	STRAIT OF JUAN DE FUCA (EAST) Department of Health unpublished data collected from station DUNGENESS BAY-104 show a geometric mean of 9 cfu/100mL and 10.7142857142857% of samples exceed the percentile criterion with the last sample collected on 19-Dec-2001. Department of Health unpublished data collected from station DUNGENESS BAY-105 show a geometric mean of 9 cfu/100mL and 21.4285714285714% of samples exceed the percentile criterion with the last sample collected on 19-Dec-2001.	390KRD	48123B1F4	48.155	123.145	Fecal Coliform		Water
18	40379	5	N	STRAIT OF JUAN DE FUCA (EAST) Department of Health unpublished data collected from station DUNGENESS BAY-106 show a geometric mean of 7 cfu/100mL and 17.8571428571429% of samples exceed the percentile criterion with the last sample collected on 19-Dec-2001.	390KRD	48123B1G4	48.165	123.145	Fecal Coliform		Water
18	40380	5	N	STRAIT OF JUAN DE FUCA (EAST) Department of Health unpublished data collected from station DUNGENESS BAY-107 show a geometric mean of 6 cfu/100mL and 10.7142857142857% of samples exceed the percentile criterion with the last sample collected on 19-Dec-2001. Department of Health unpublished data collected from station EAST STRAITS-116 show a geometric mean of 2 cfu/100mL and 0% of samples exceed the percentile criterion with the last sample collected on 8-Nov-2001.	390KRD	48123B1H4	48.175	123.145	Fecal Coliform		Water
18	40382	5	N	STRAIT OF JUAN DE FUCA (EAST) Department of Health unpublished data collected from station DUNGENESS BAY-109 show a geometric mean of 6 cfu/100mL and 10.7142857142857% of samples exceed the percentile criterion with the last sample collected on 19-Dec-2001.	390KRD	48123B1G6	48.165	123.165	Fecal Coliform		Water
18	40384	5	N	STRAIT OF JUAN DE FUCA (EAST) Department of Health unpublished data collected from station DUNGENESS BAY-111 show a geometric mean of 5 cfu/100mL and 14.2857142857143% of samples exceed the percentile criterion with the last sample collected on 19-Dec-2001.	390KRD	48123B1F6	48.155	123.165	Fecal Coliform		Water
18	40385	5	N	STRAIT OF JUAN DE FUCA (EAST) Department of Health unpublished data collected from station DUNGENESS BAY-112 show a geometric mean of 5 cfu/100mL and 10.7142857142857% of samples exceed the percentile criterion with the last sample collected on 19-Dec-2001.	390KRD	48123B1E7	48.145	123.175	Fecal Coliform		Water
18	40386	5	N	STRAIT OF JUAN DE FUCA (EAST) Department of Health unpublished data collected from station DUNGENESS BAY-113 show a geometric mean of 9 cfu/100mL and 21.4285714285714% of samples exceed the percentile criterion with the last sample collected on 19-Dec-2001.	390KRD	48123B1F3	48.155	123.135	Fecal Coliform		Water
18	40387	5	N	STRAIT OF JUAN DE FUCA (EAST) Department of Health unpublished data collected from station DUNGENESS BAY-114 show a geometric mean of 7 cfu/100mL and 10.7142857142857% of samples exceed the percentile criterion with the last sample collected on 19-Dec-2001.	390KRD	48123B1F2	48.155	123.125	Fecal Coliform		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Remarks	Medium
				Basis				
18	21484	5	N	TUMWATER CREEK	ZY80RT 0 30N 06W 01	Fecal Coliform		Water
<p>Streamkeepers of Clallam County unpublished data show a geometric mean of 26 cfu/100mL from 2 samples collected in 2003 at station Tumwater 0.1 (Tumwater u/s of Marine Dr).</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 34 cfu/100mL from 5 samples collected in 2002 at station Tumwater 0.1 (Tumwater u/s of Marine Dr).</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 69 cfu/100mL from 6 samples collected in 2001 at station Tumwater 0.1 (Tumwater u/s of Marine Dr).</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 107 cfu/100mL from 5 samples collected in 2000 at station Tumwater 0.1 (Tumwater u/s of Marine Dr).</p> <p>Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Tumwater 0.1 shows in 2000, 2 of 4 samples (50.0%) exceeded the percentile criterion.</p> <p>Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Tumwater 0.4 shows in 2001, at least one sample exceeded the criterion.</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 14 cfu/100mL from 4 samples collected in 2001 at station Tumwater 0.4 (Tumwater @d/s end of Truck Rt culvert).</p> <p>Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Tumwater 0.6 shows in 2001, at least one sample exceeded the criterion.</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 8 cfu/100mL from 1 samples collected in 2002 at station Tumwater 0.6 (Tumwater d/s of 8 St.).</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 8 cfu/100mL from 4 samples collected in 2001 at station Tumwater 0.6 (Tumwater d/s of 8 St.).</p> <p>Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Tumwater 0.8 shows in 2003, at least one sample exceeded the criterion.</p> <p>Streamkeepers of Clallam County unpublished data show a geometric mean of 14 cfu/100mL from 4 samples collected in 2001 at station Tumwater 0.8 (Tumwater nr. 11 St., d/s of storm outflow channel).</p> <p>Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Tumwater 0.8a shows in 2002, at least one sample exceeded the criterion.</p> <p>Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Tumwater 0.8b shows in 2001 and 2003 at least one sample exceeded the criterion.</p> <p>Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Tumwater 0.8c shows in 2002, at least one sample exceeded the criterion.</p> <p>Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Tumwater 0.8d2 shows in 2001, at least one sample exceeded the criterion.</p> <p>Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Tumwater 0.8e shows in 2001 and 2003 at least one sample exceeded the criterion.</p>								

18	9927	5	N	UNNAMED CREEK	F152VB	1.054	30N	04W	01	Fecal Coliform	Water
Sargeant (2002) station HC0.2 (HC0.2) shows the geometric mean of 8 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 5 samples collected during 1999.; Sargeant (2002) station HC0.2 (HC0.2) shows the geometric mean of 15 does not exceed the criterion and that 13 % of the samples exceeds the percentile criterion from 15 samples collected during 2000.;											